

Pioneer 3 AT mobile robot and Pediaphon - presentations at CeBIT and Learntec fairs

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The PRT Pioneer 3 AT mobile robot [1] and the Pediaphon project [4] were presented at the CeBIT 2007 [2] fair in Hannover at the joint booth of the State of North Rhine-Westphalia.

A Windows Mobile based PDA with a remote control applet was presented to demonstrate mobile education scenarios. An alternative interface based on speech recognition for any cell phone to remote control the robot was also introduced. In this case the mobile robot is equipped with an Asterisk VoIP SIP telephony software [3]. Since the SIP protocol is IP based no extra connection to a phone is necessary, merely a SIP service provider account is sufficient. The Asterisk speech recognition module ASR was coupled to the robots low level control API to send motion commands directly to the underlying micro controller. The speech recognition robot user interface can be reached from every phone worldwide by a landline network phone number.



Figure 1: NRW government spokesman Krautscheid visits PRT CeBIT exhibit

At the Learntec 2007 fair in Karlsruhe the 'Pediaphon' project [4] was presented together with other University exhibits at the joint booth [6]. Pediaphon is a web based service which generates audio representations of Wikipedia articles dynamically [7][8]. The tool is usable on- and off-line, as a web based service to listen to the articles directly in the web browser as well as to download MP3 files for later use on mobile devices like MP3-players and mobile phones.

[1] <http://prt.fernuni-hagen.de/pro/pioneer/en/index.html>

[2] <http://www.cebit.de>

[3] <http://www.asterisk.org>

[4] <http://pediaphon.fernuni-hagen.de>

[5] <http://www.fernuni-hagen.de/universitaet/aktuelles/2007/04/03-ak-cebit-nach.shtml>

[6] http://www.fernuni-hagen.de/arbeiten/newsletter/termine/51_18-pl-learntec.shtml

[7] <http://www.pro-linux.de/news/2007/11658.html>

[8] <http://netzpolitik.org/2007/das-pediaphon-wikipedia-vorlesen-lassen/>